

Course Material

Autodesk Fusion

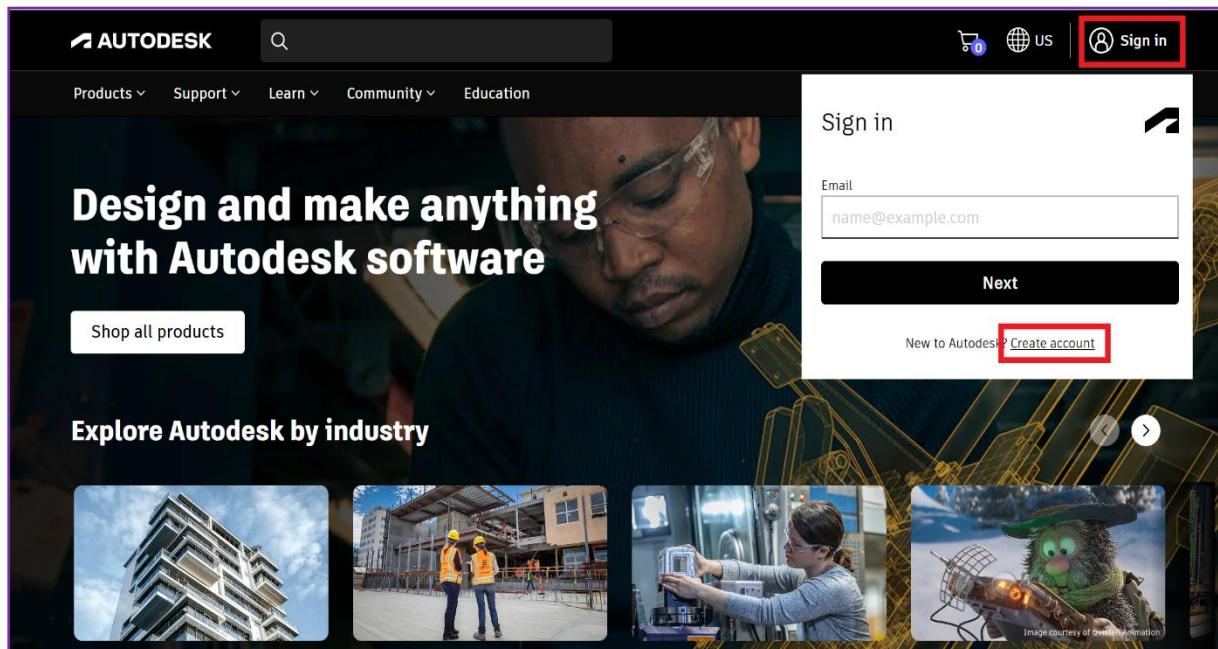
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Installation

Sign Up/Log In:

1. Go to <https://www.autodesk.com/>
2. Click on "Sign in", and on the next page, click on "**Create an account**" to Sign up.



3. Enter your details and click on "**Create account**".

Create account

First name

Last name

Email

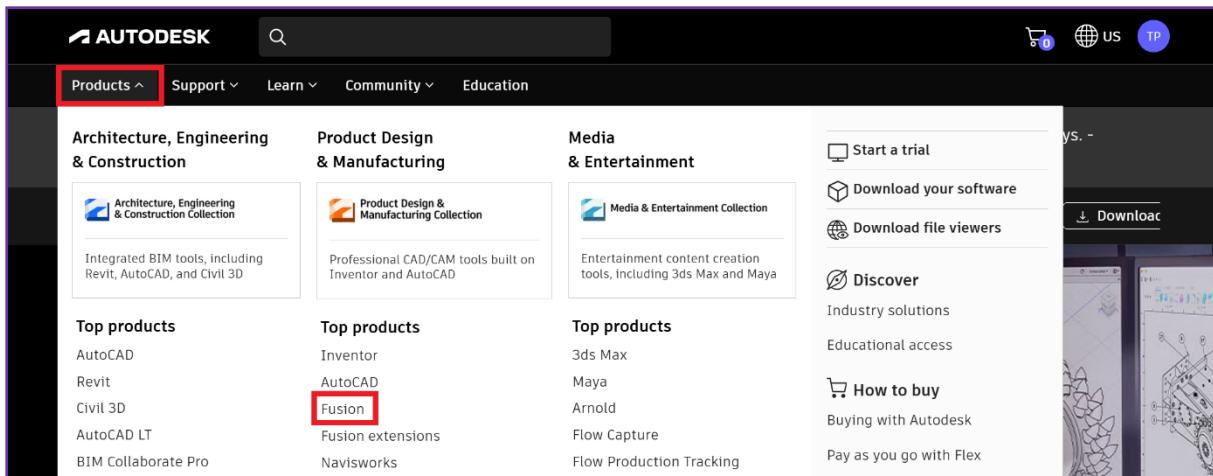
Confirm email

Password

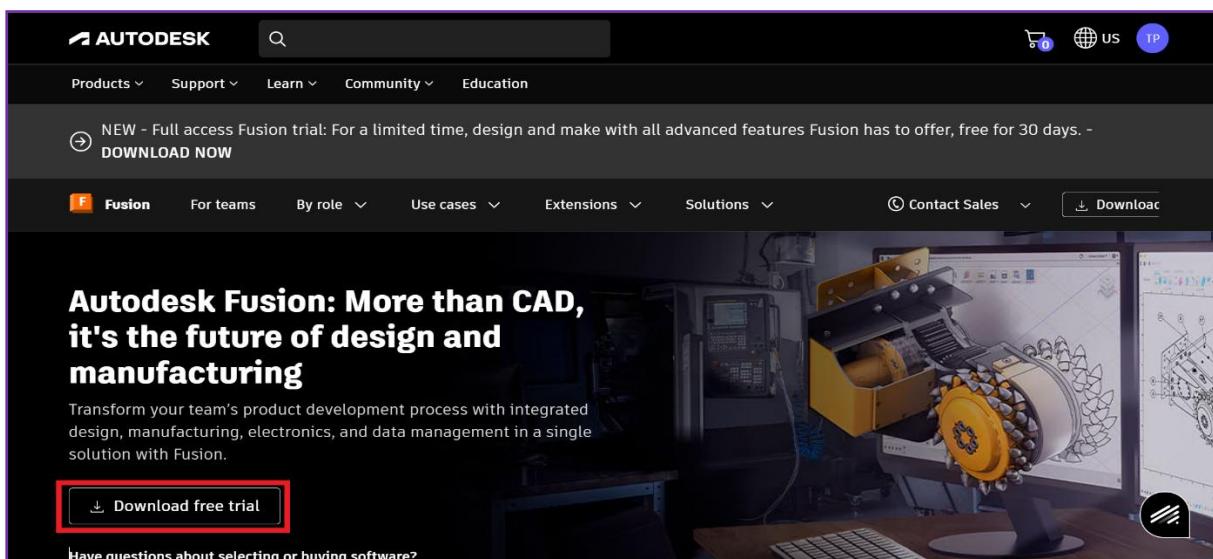
I agree to the [Autodesk Terms of Use](#) and the [Privacy Statement](#).

Create account

- After "Sign in", click on "Products" and then on "Fusion" to navigate to the Autodesk Fusion product home page. Click on "Download free trial" and install the Fusion software on your PC.

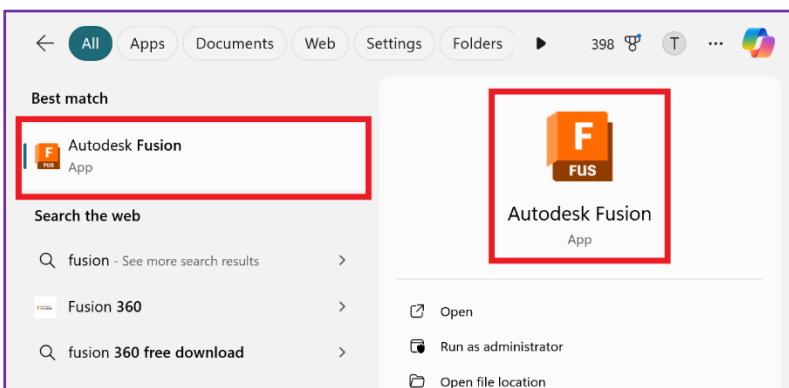


The screenshot shows the Autodesk homepage with the "Products" menu item highlighted with a red box. Below the menu, there are three main categories: Architecture, Engineering & Construction, Product Design & Manufacturing, and Media & Entertainment. Under "Product Design & Manufacturing", the "Fusion" product is listed under "Top products". To the right, there is a sidebar with options like "Start a trial", "Download your software", and "Discover". A large image of a mechanical part being modeled in Fusion is on the right side of the page.



The screenshot shows the Autodesk Fusion product page. At the top, there is a message about a new 30-day trial. Below it, the "Fusion" product is prominently featured with the tagline "Autodesk Fusion: More than CAD, it's the future of design and manufacturing". A "Download free trial" button is highlighted with a red box. The page also includes sections for "For teams", "By role", "Use cases", "Extensions", "Solutions", "Contact Sales", and a "Download" link. A large image of a complex mechanical assembly being designed in Fusion is on the right.

5. Launch the "Autodesk Fusion" application after installation.



Basic Navigation Controls

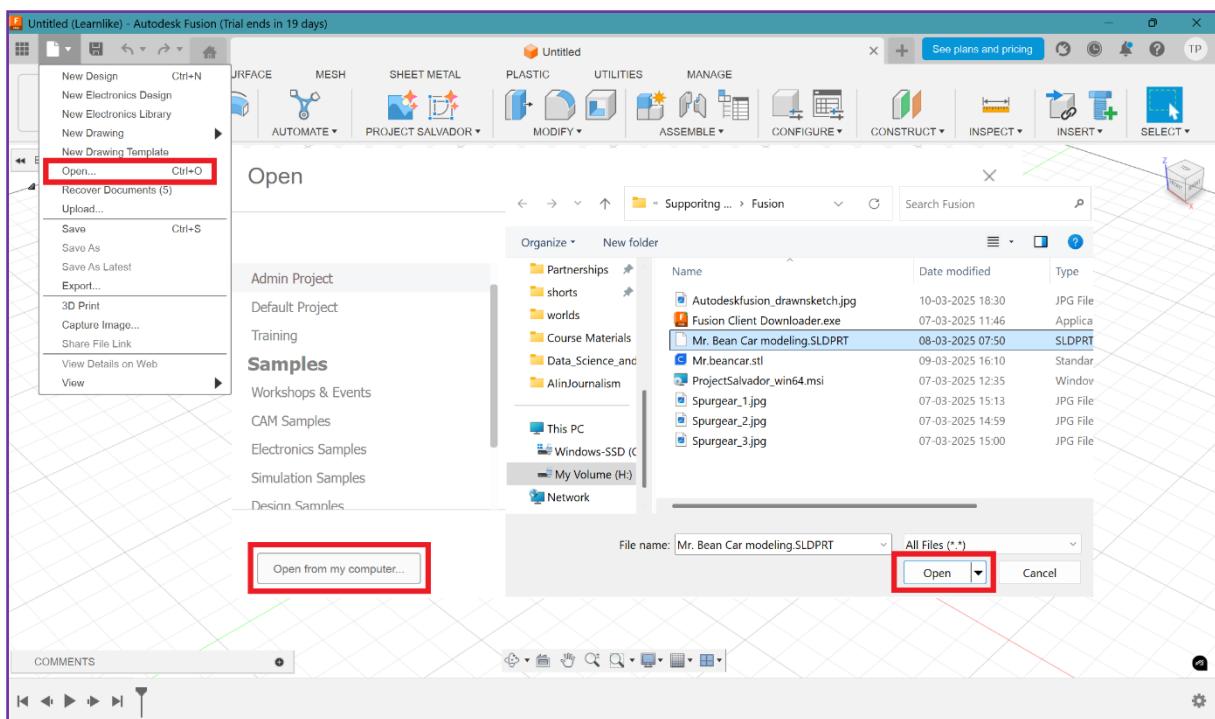
- **Zoom** → Use the **mouse scroll** to zoom in and out.
- **Free Rotate** → Hold **Middle mouse click + Shift** to freely rotate the view.
- **Pan** → Hold **Middle mouse click + Ctrl** to pan across the workspace.

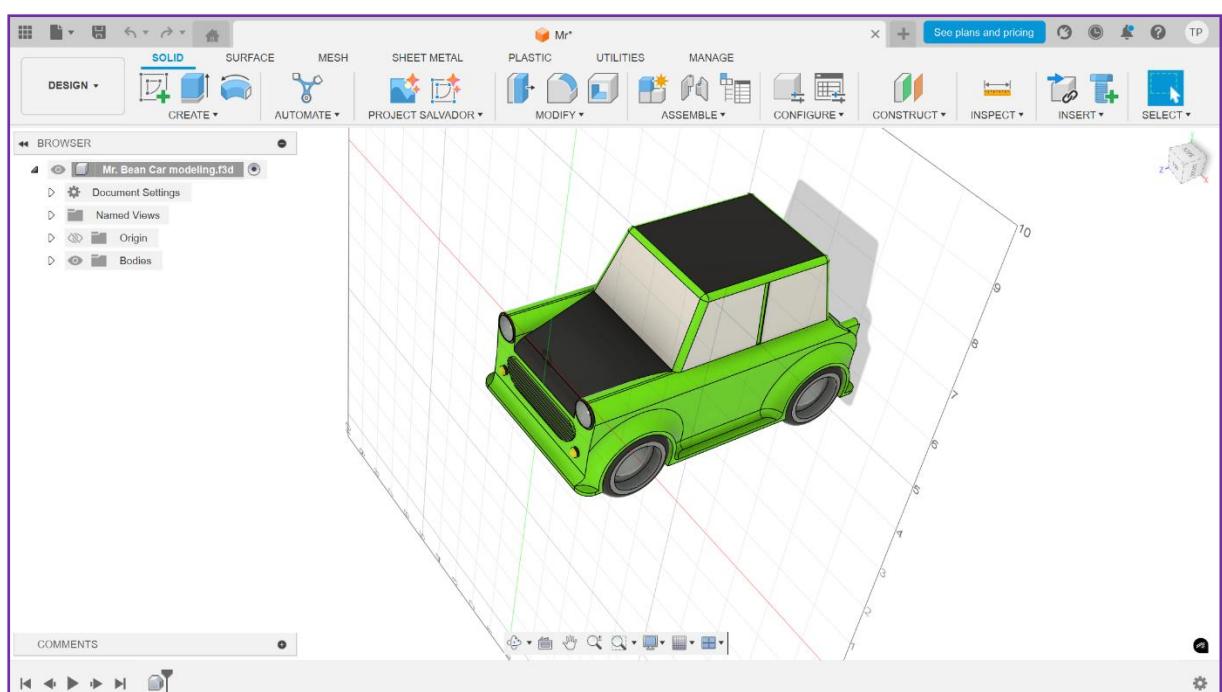
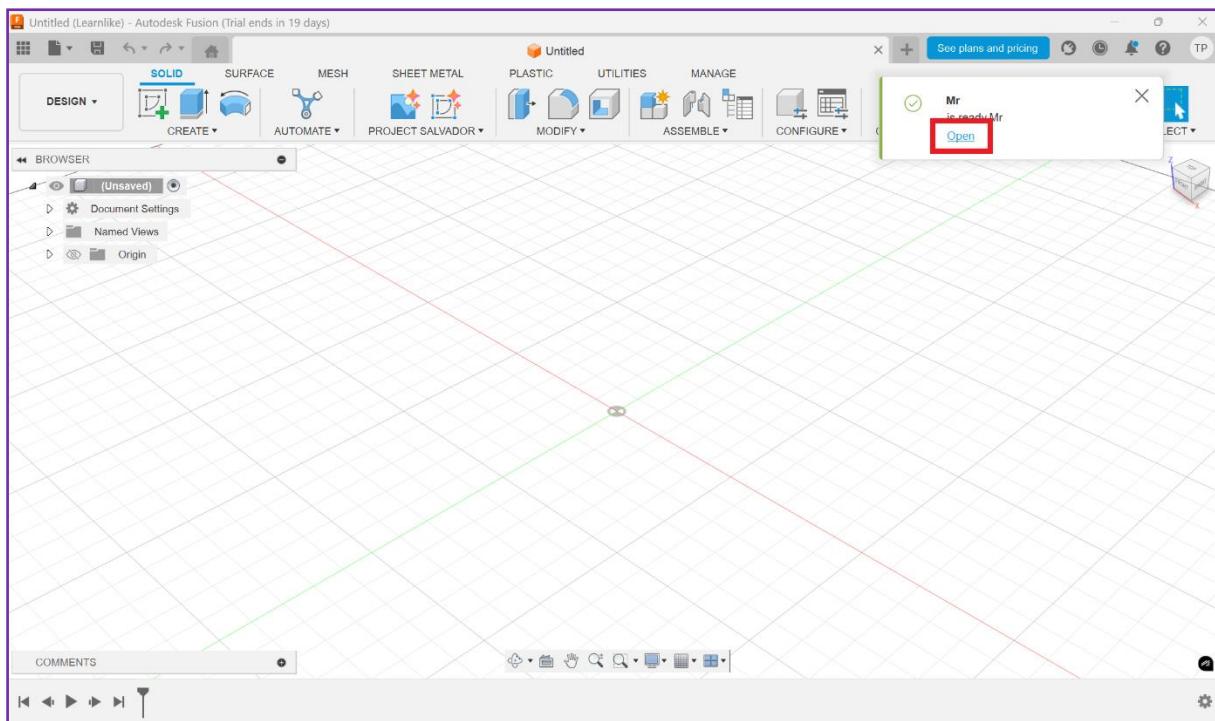
Automated Modeling

1. Download the "**Mr. Bean Car modeling.SLDPR**T" file from the shared **Google Drive** link to your local PC.

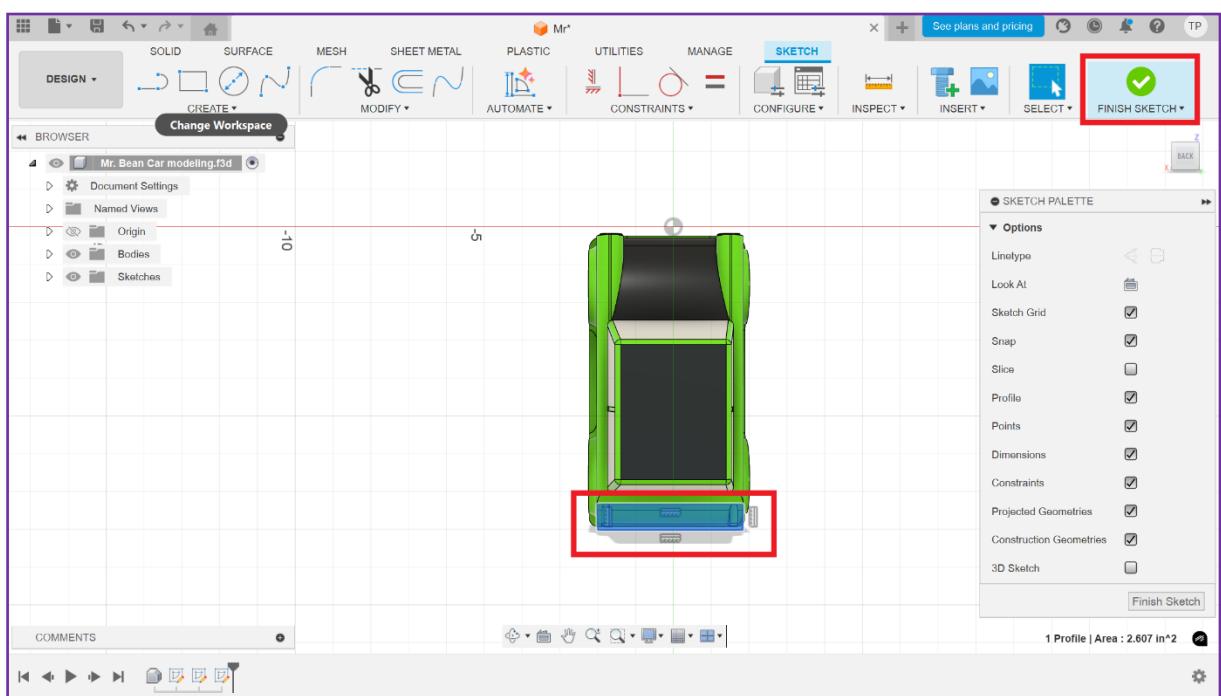
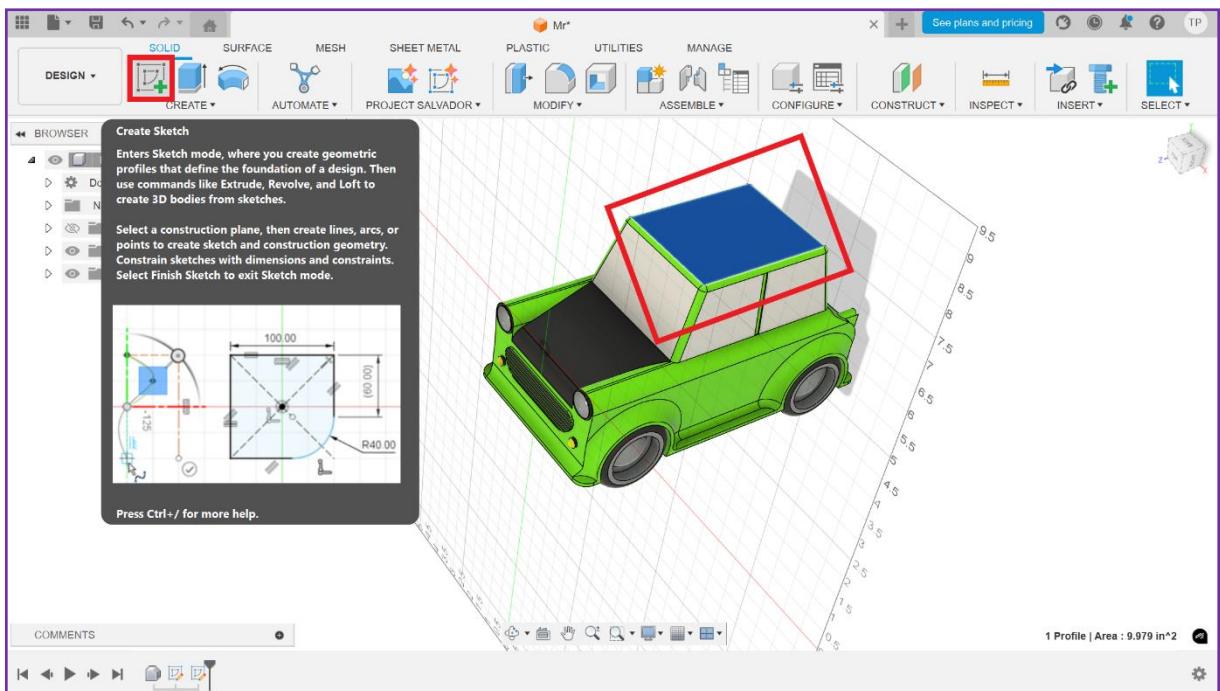
https://drive.google.com/file/d/1SIB5AFmgenGnHkIQfiA9s2zNiYcc310a/view?usp=drive_link

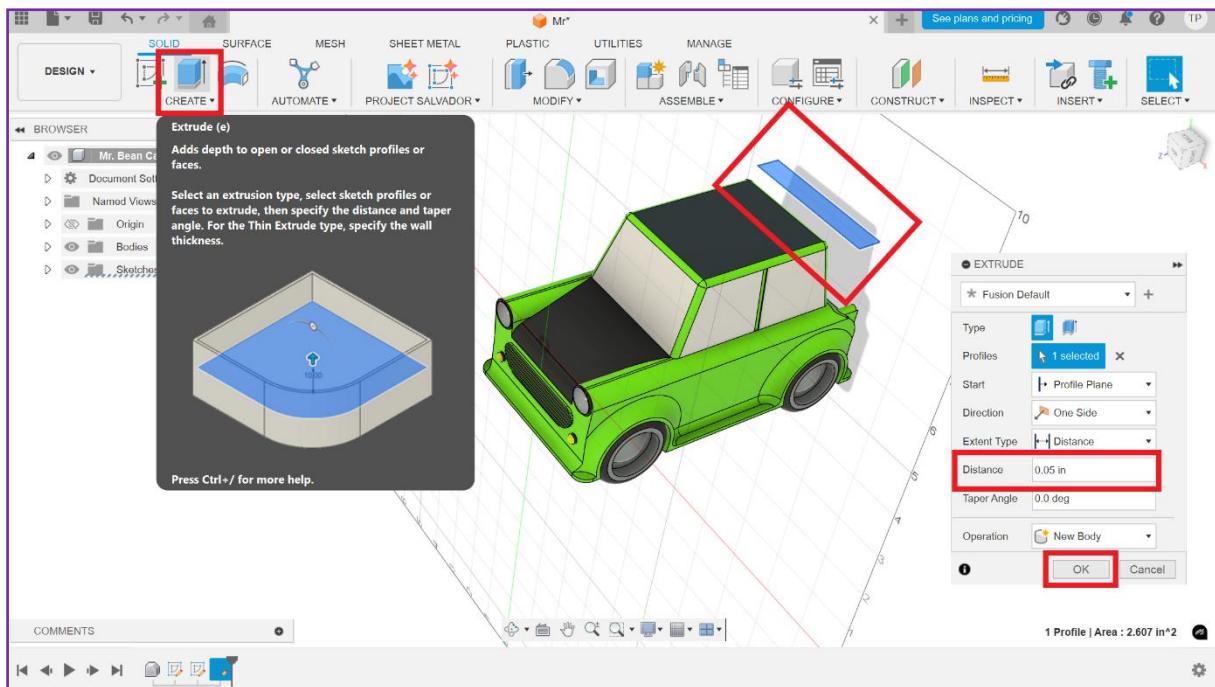
2. Go to "**Open**" → "**Open from my computer**", select the downloaded file, and click "**Open**". Once the file is imported, a pop-up will appear. Click "**Open**" to add the part into **Fusion**.



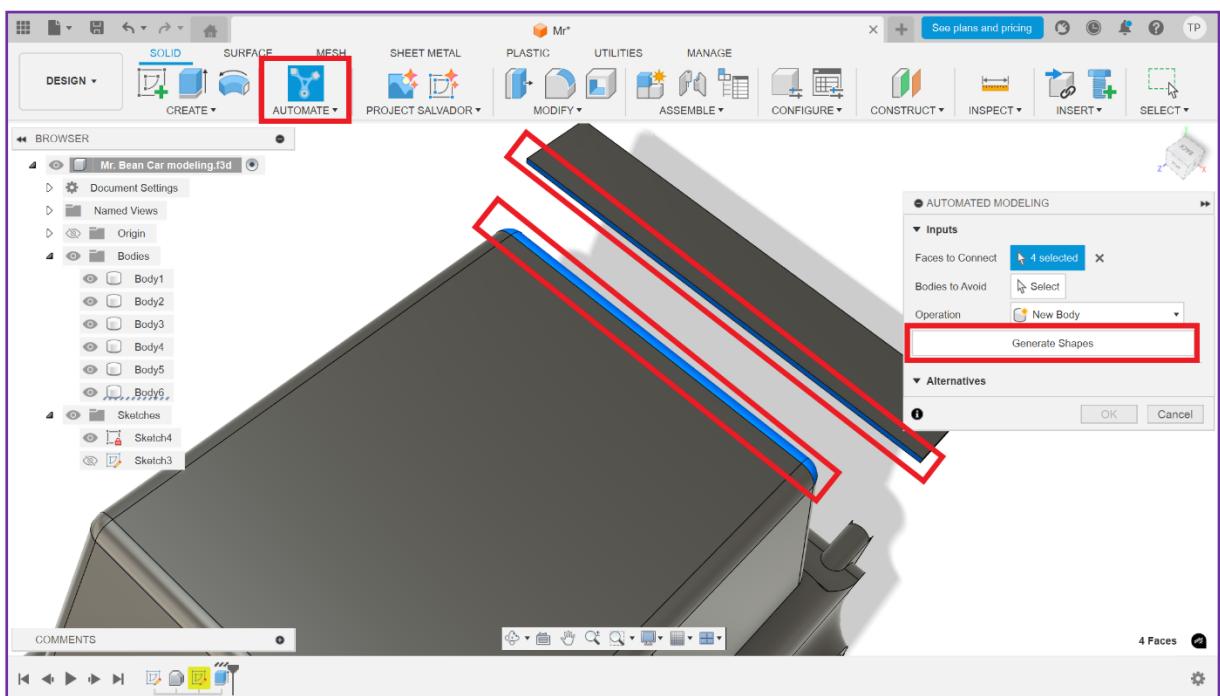


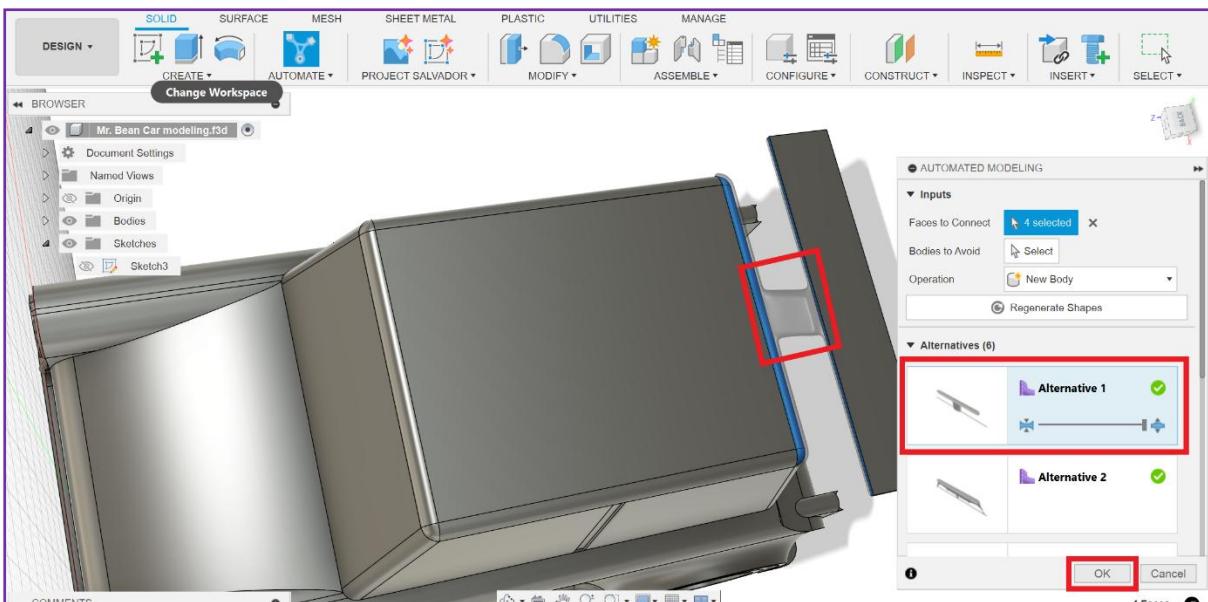
3. Choose the top surface of the car and click on "**Create Sketch**" to draw your sketch. Draw a **rectangle** to match the car width and click "**FINISH SKETCH**" to complete it. **Extrude** the sketch to a minimum depth of **0.05 inch** and click "**OK**" to finalize the extrusion.



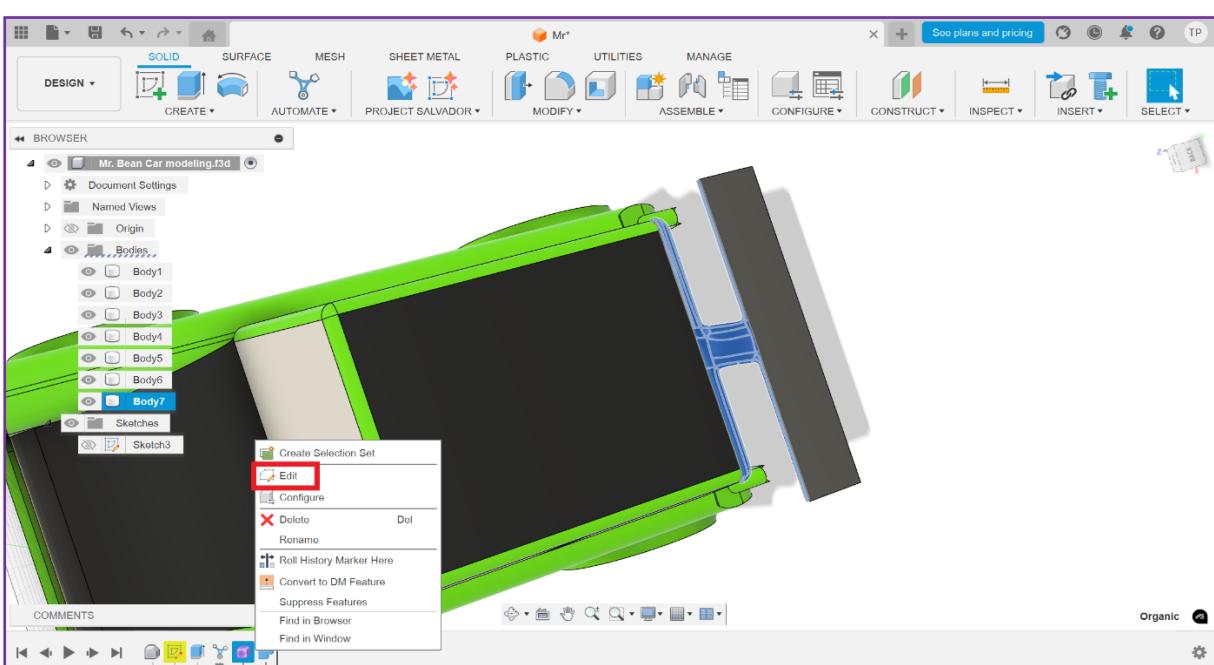


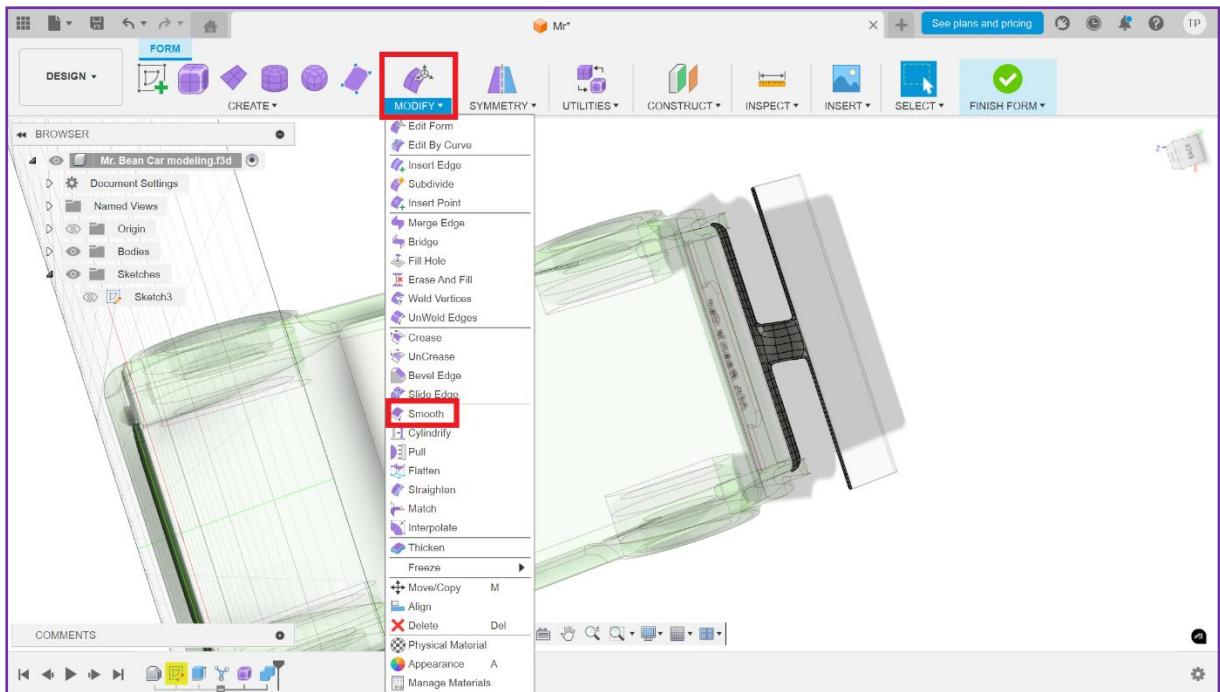
4. Choose all the surfaces to connect and click on "**Automated Modeling → Generate Shapes**". A few instances will be auto-generated. Select the preferred design, adjust the **volume** of the modelled shape as needed, and click "**OK**" to add the body to the model.



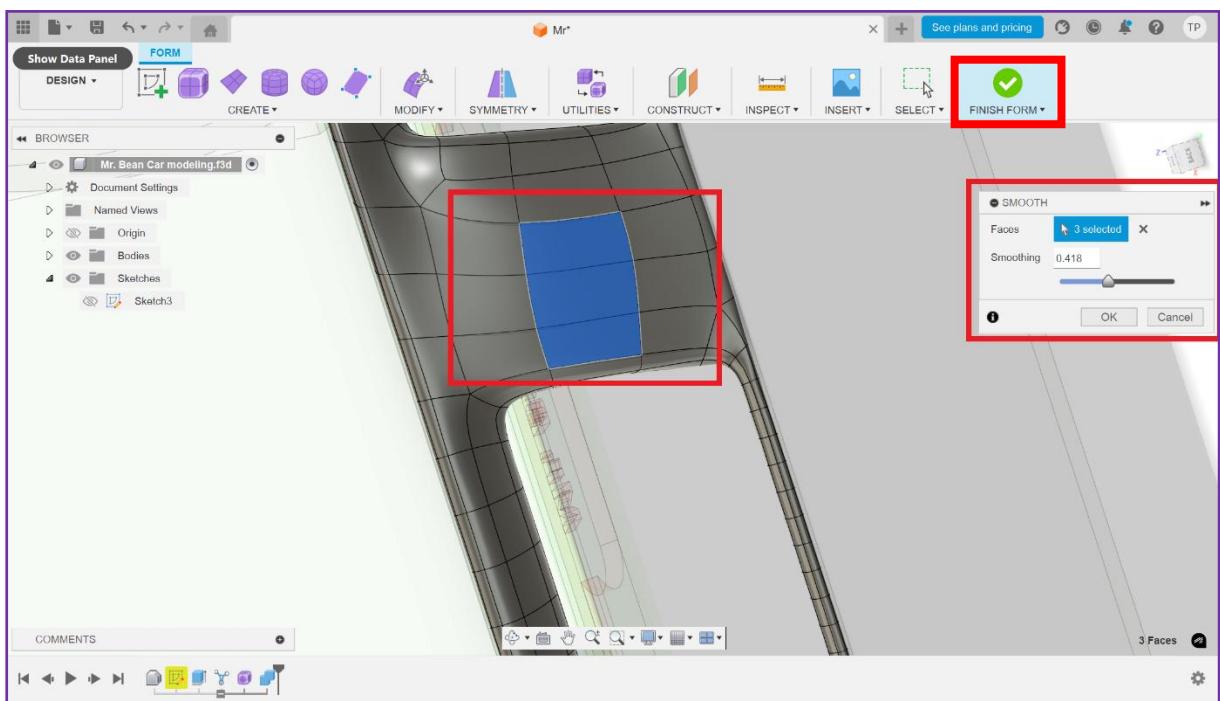


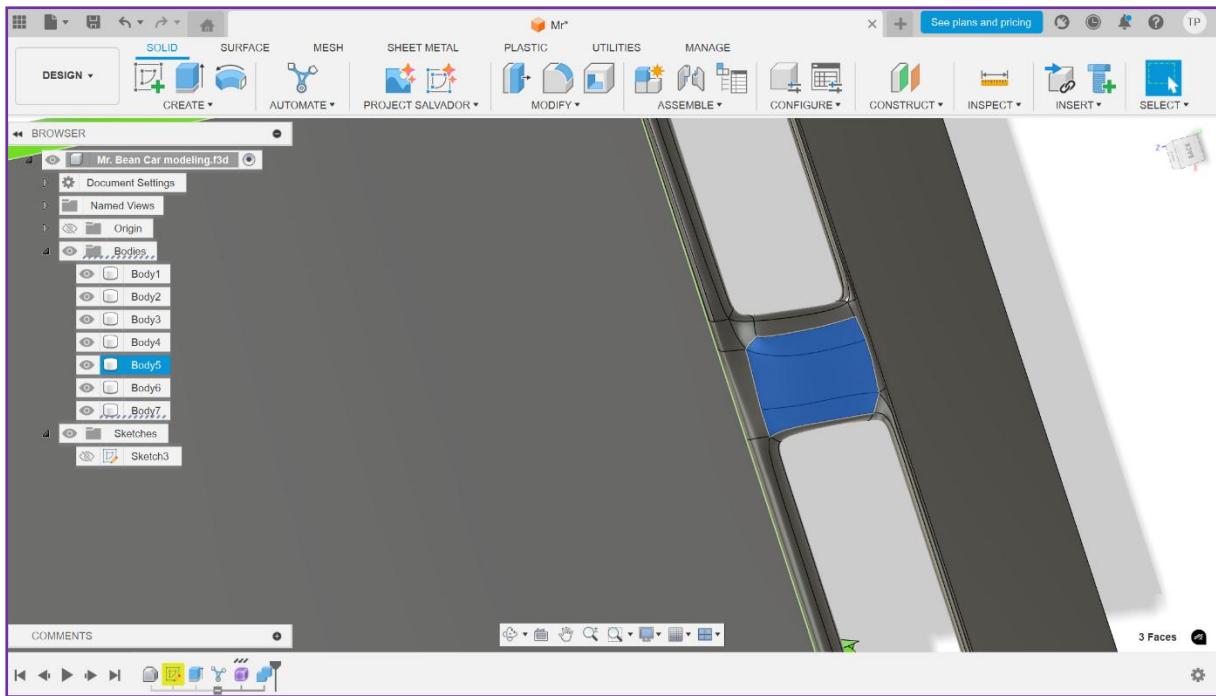
5. Right-click on the new body created and select "Edit" to modify its parameters. Example: Choose "MODIFY → Smooth" to adjust the curvature and make it smoother.





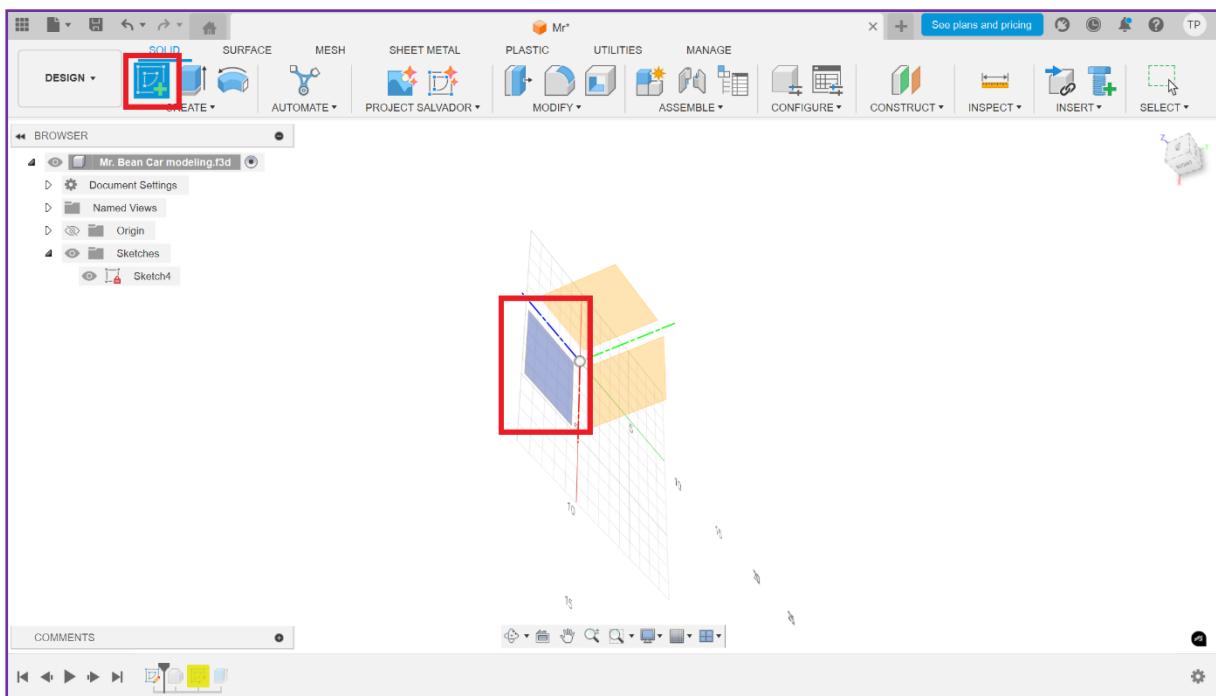
6. Select the faces to smoothen, choose the **smoothing value**, and click "**OK**". Finally, click "**FINISH FORM**" to apply the modifications to the faces.



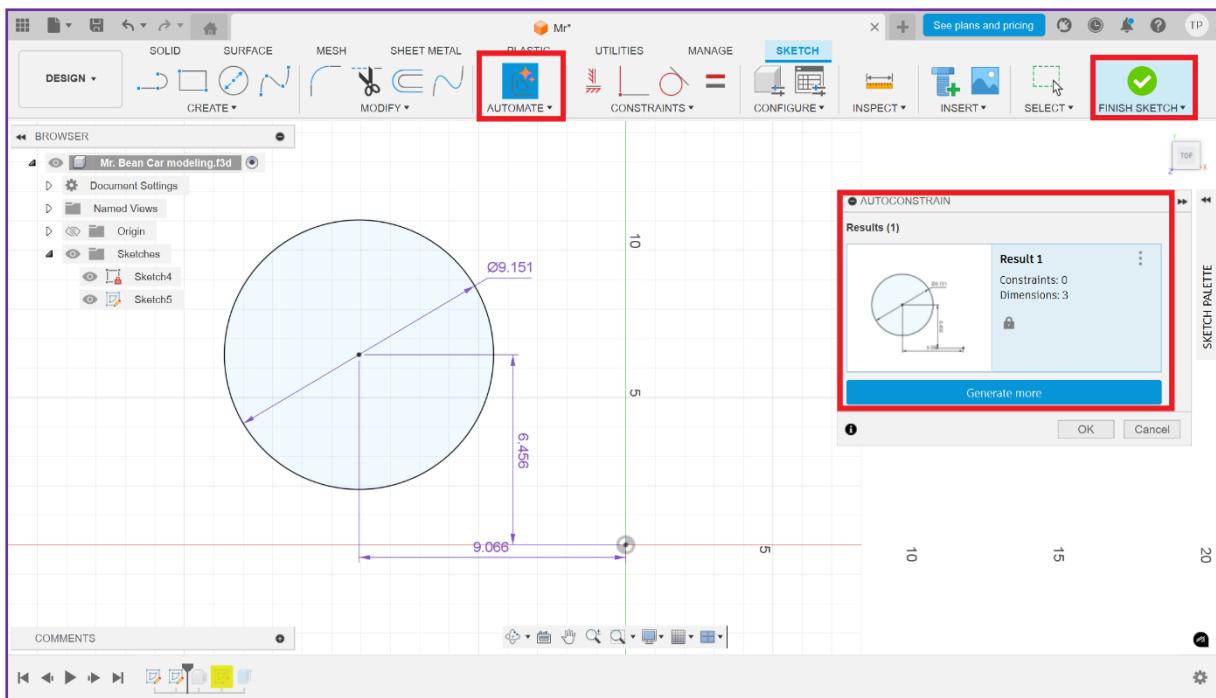


AutoConstrain

1. Click on "Create Sketch" and choose a plane to draw the sketch.

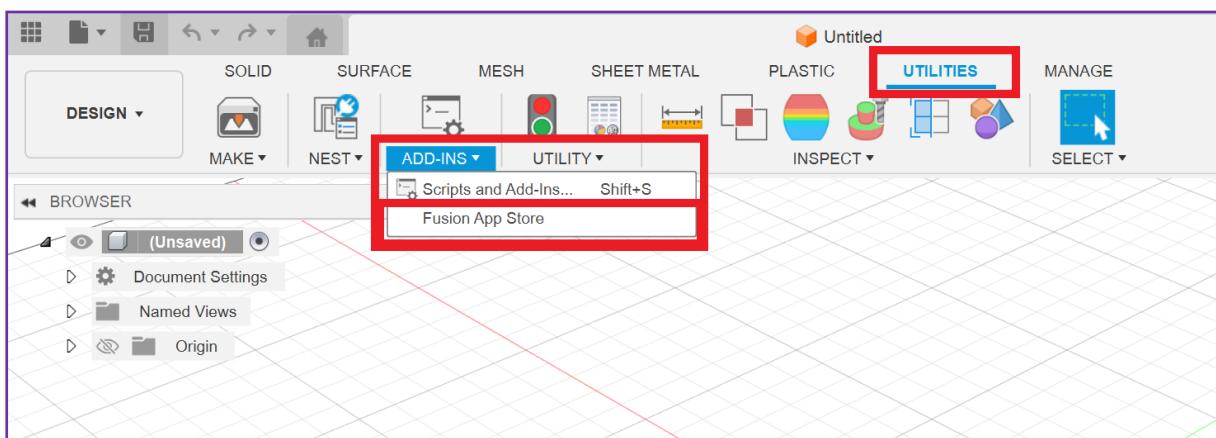


2. Draw any shape and click on "AutoConstrain" to automate the constraints. You can choose and apply the constraints of your choice, or click "Generate more" for additional constraints. Click on “FINISH SKETCH” to apply the changes.



PROJECT SALVADOR

1. Go to "**UTILITIES → ADD-INS**" and choose "**Fusion App Store**" from the dropdown menu.



2. The app will redirect you to the "**AUTODESK App Store**". Search for the add-in "**Project Salvador**", click on it, and download the **ProjectSalvador_win64.msi** file. Install the file, then close and relaunch Autodesk Fusion for the add-in to take effect.

AUTODESK App Store English ▾

Fusion Search Results : Found 2 results matching "Project Salvador" Can't find what you need? Submit your request here.

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Project Salvador

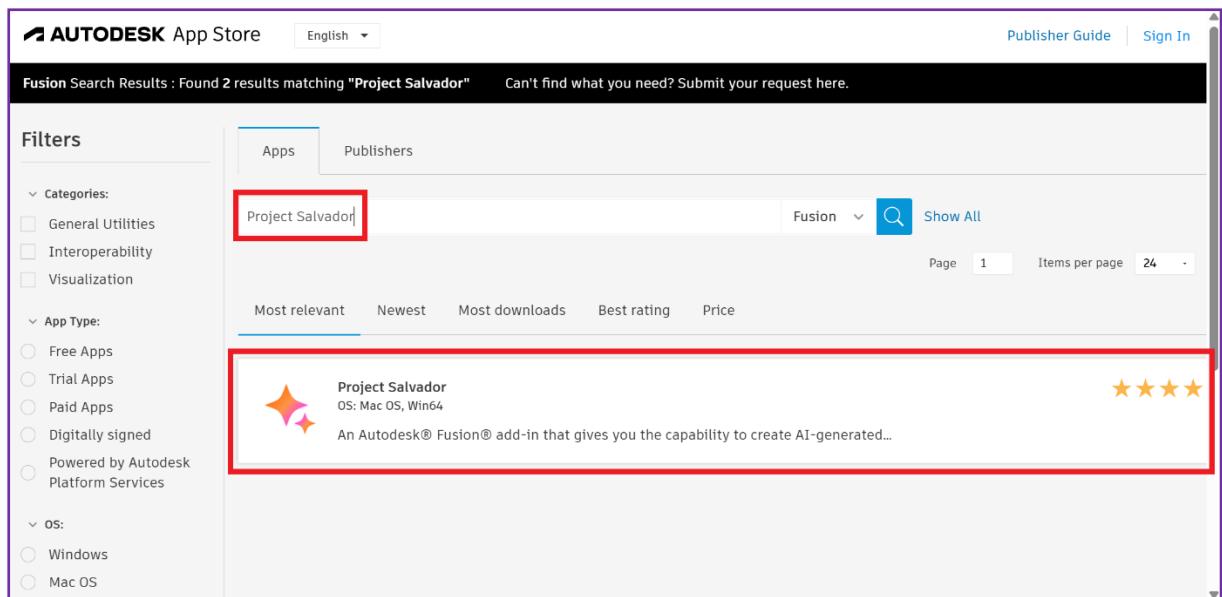
Fusion Show All

Page 1 Items per page 24

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Project Salvador
OS: Mac OS, Win64
An Autodesk® Fusion® add-in that gives you the capability to create AI-generated...

★★★★★



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Project Salvador
Autodesk Inc. ★★★★★ 15 reviews

Download Add to Wishlist

OS: Mac OS Win64

Language: English

Description

Project Salvador (Beta) is an Autodesk® Fusion® add-in that provides access to third-party Generative AI models through the APIs.

Free

Download Size:

Release Date:

Last Updated:

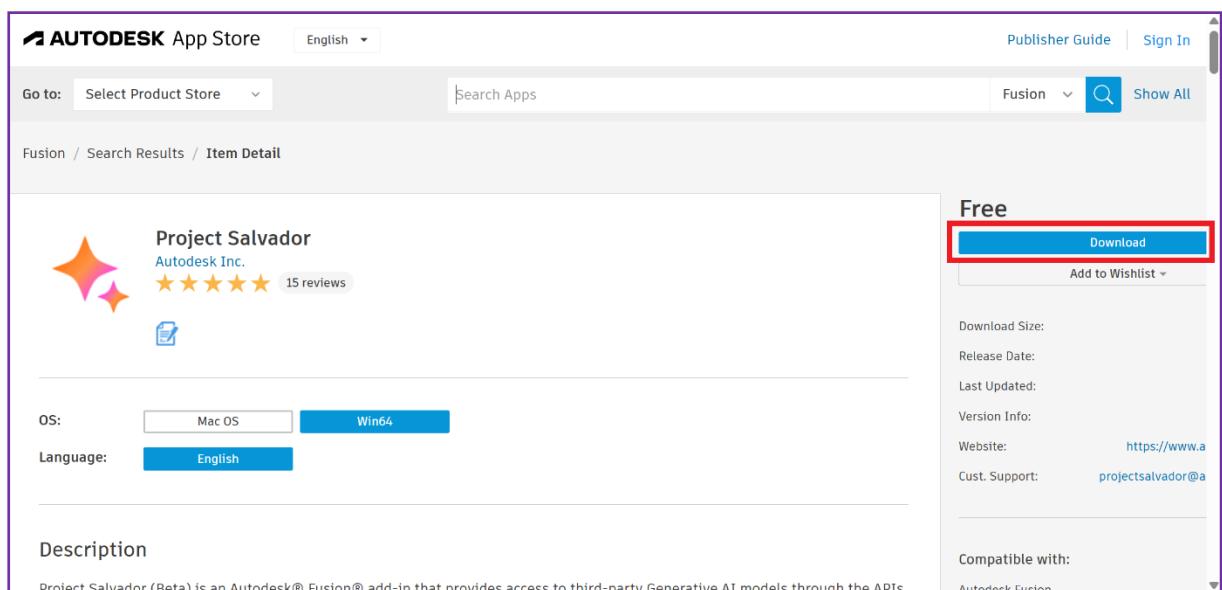
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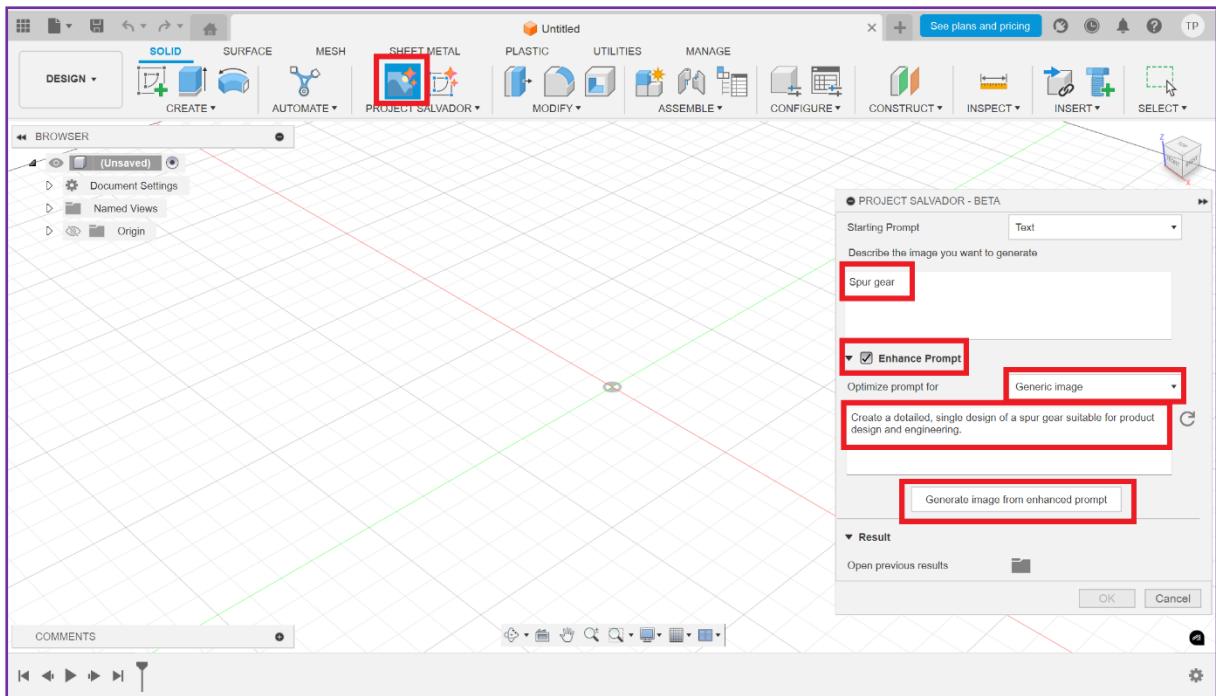
Cust. Support: projectsalvador@

Compatible with:

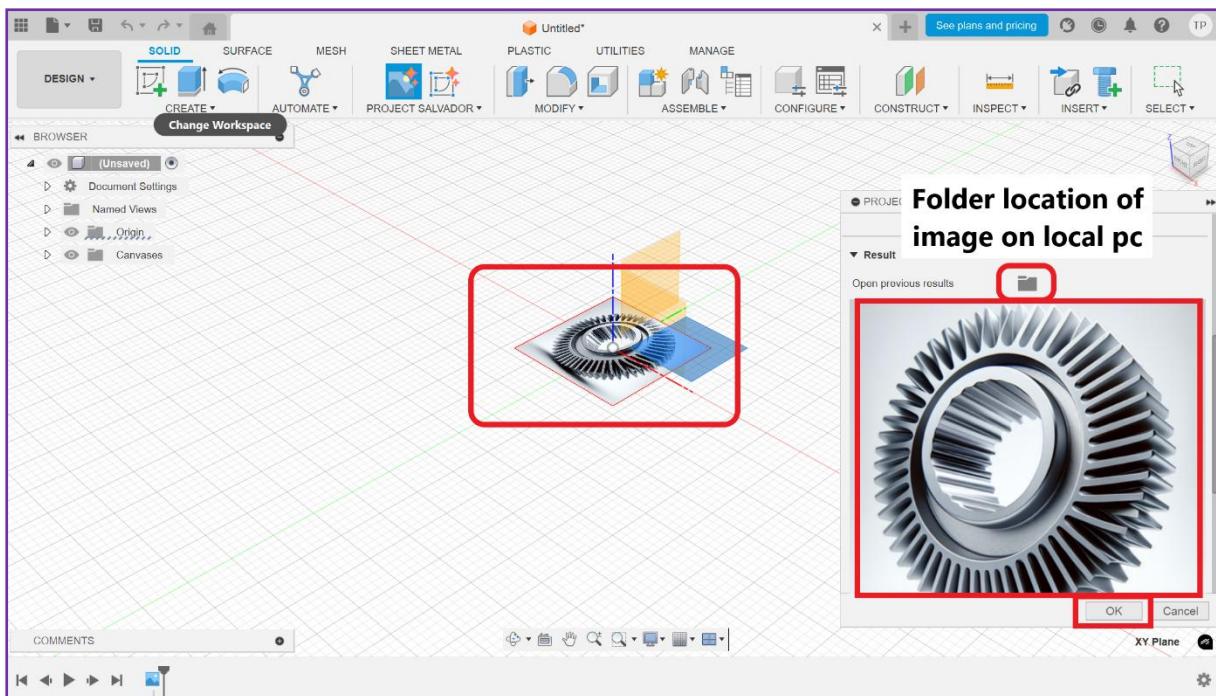
Autodesk Fusion



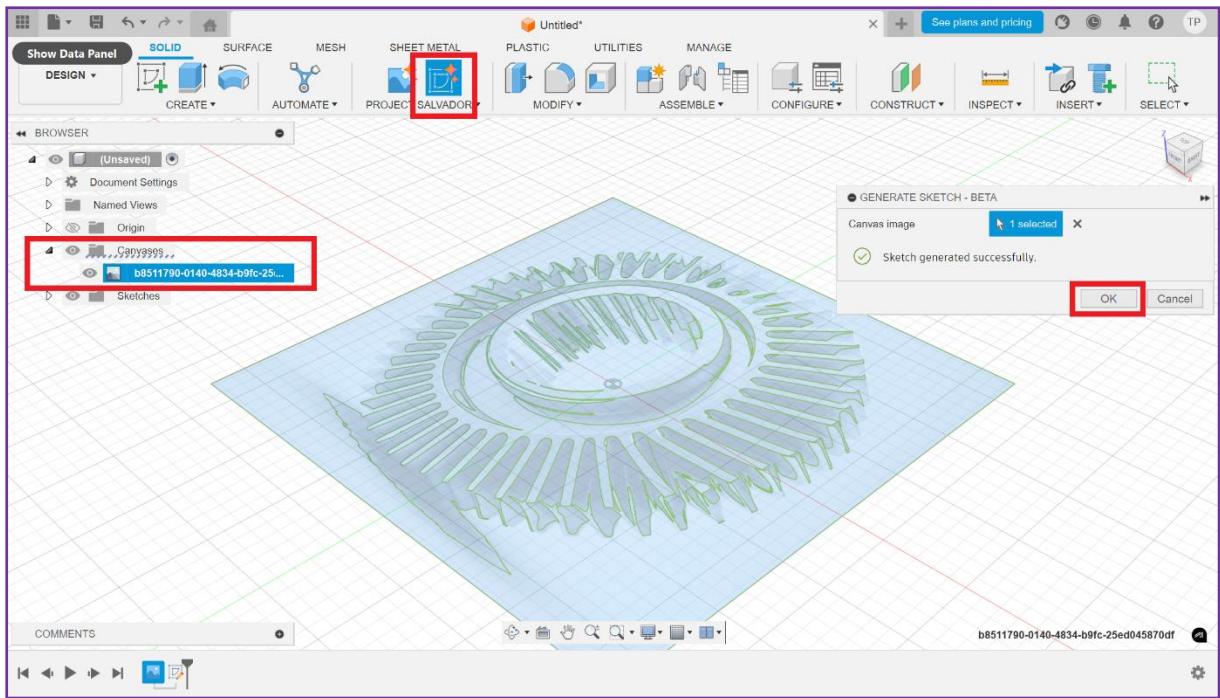
3. Click on "**Project Salvador - Beta**" and enter the prompt to create an image. Enable "**Enhance Prompt**" to auto-generate fine details for your creation. Click on "**Generate image from enhance prompt**" to create a 3D image based on the prompt.



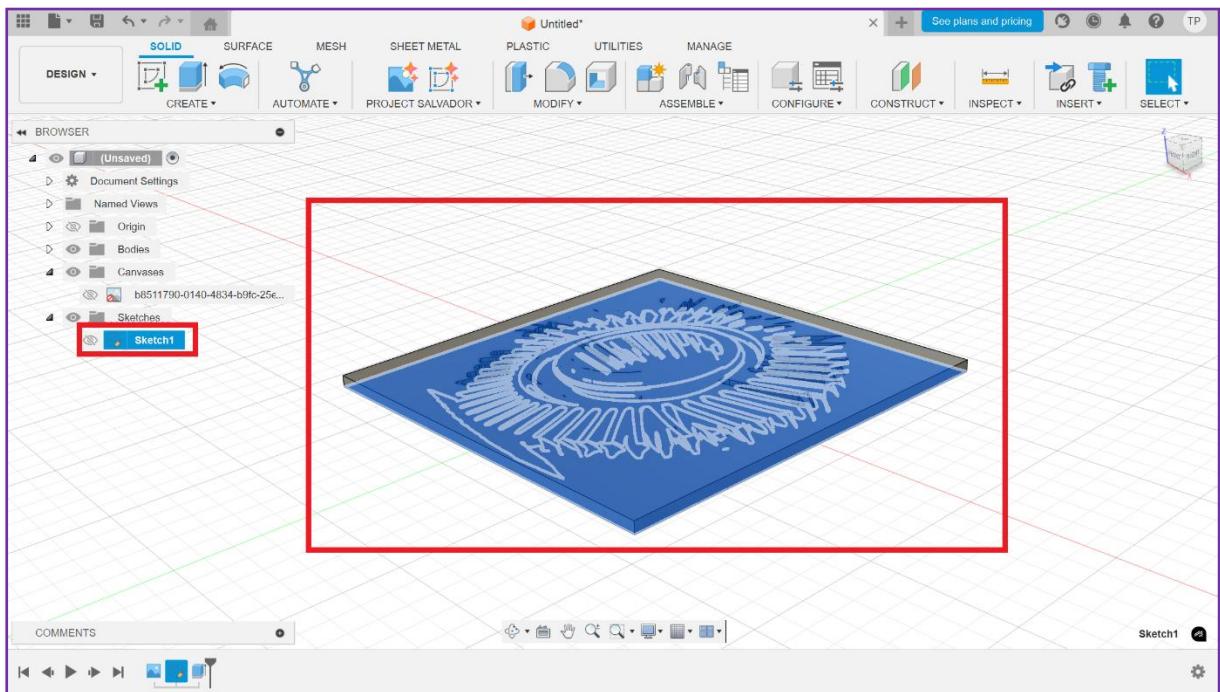
4. A 3D image of a spur gear will be generated. Pick a plane to paste the 3D image, adjust its position if needed, and click "OK" once the image is placed into the application.



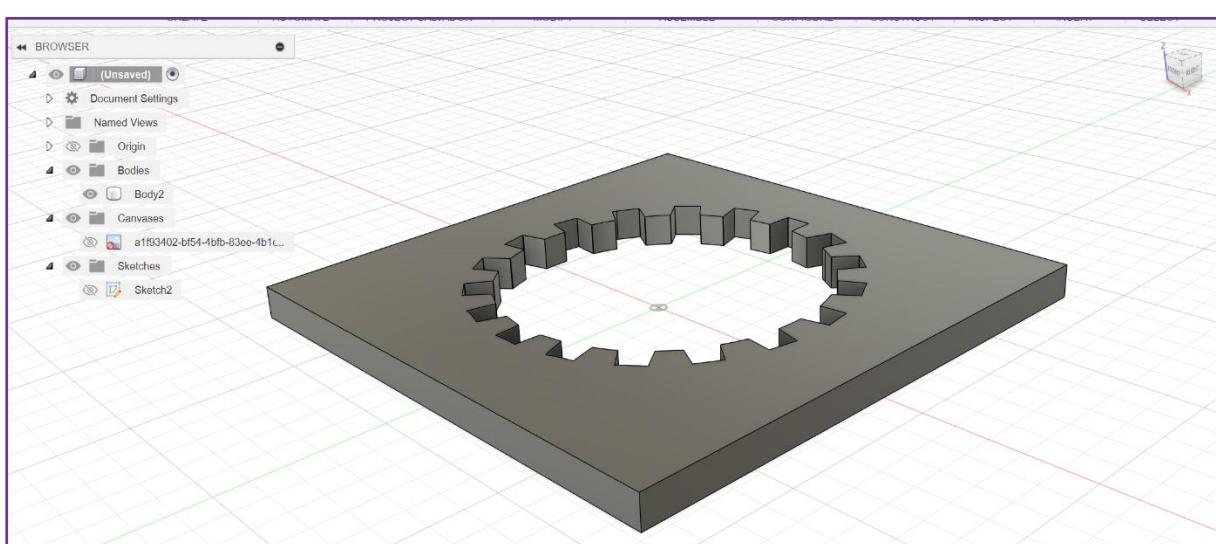
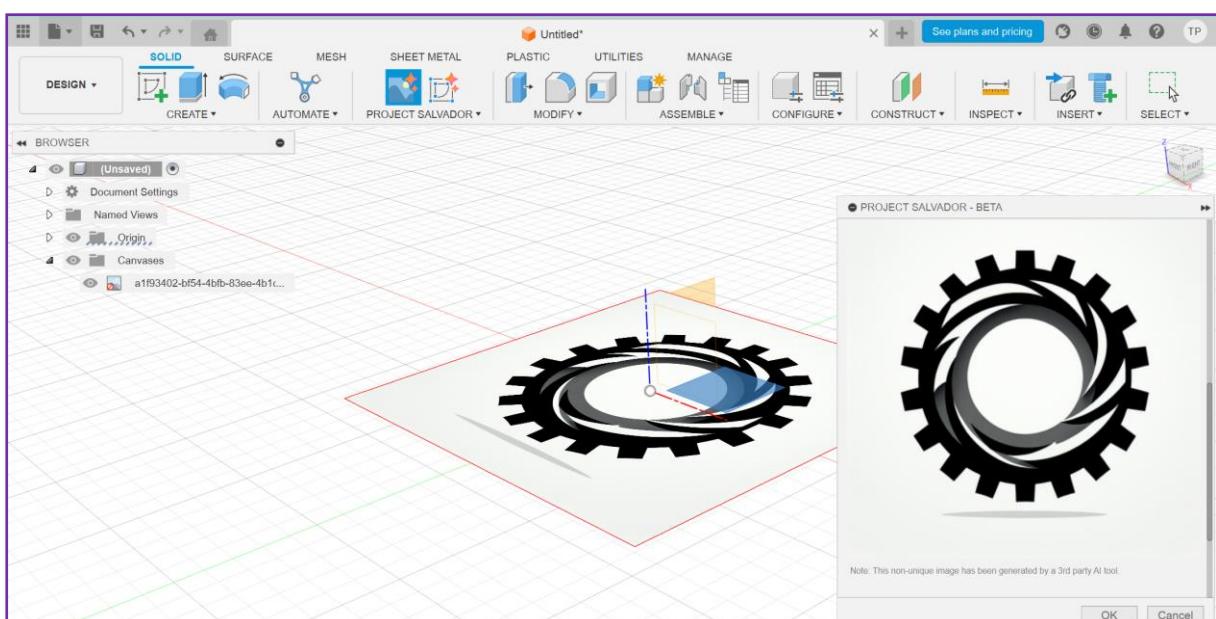
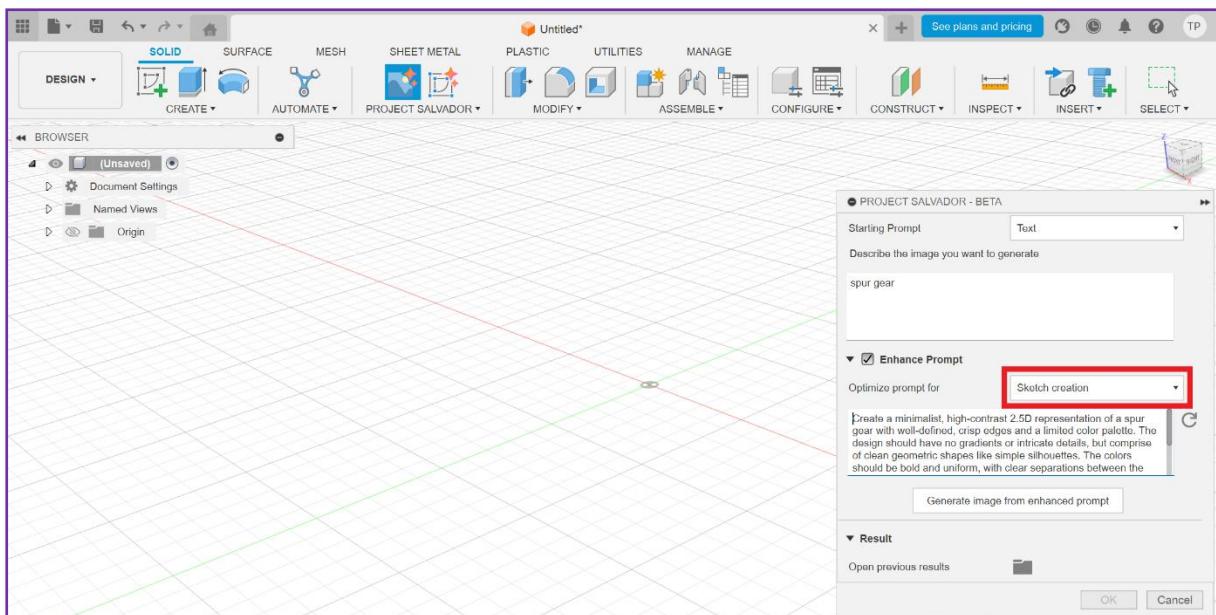
5. Click on "Generate Sketch - Beta" and select the image under canvases to generate a sketch based on the 3D image. Click "OK" to finish the sketch.



6. Now, we can use the sketch to create various solid bodies.

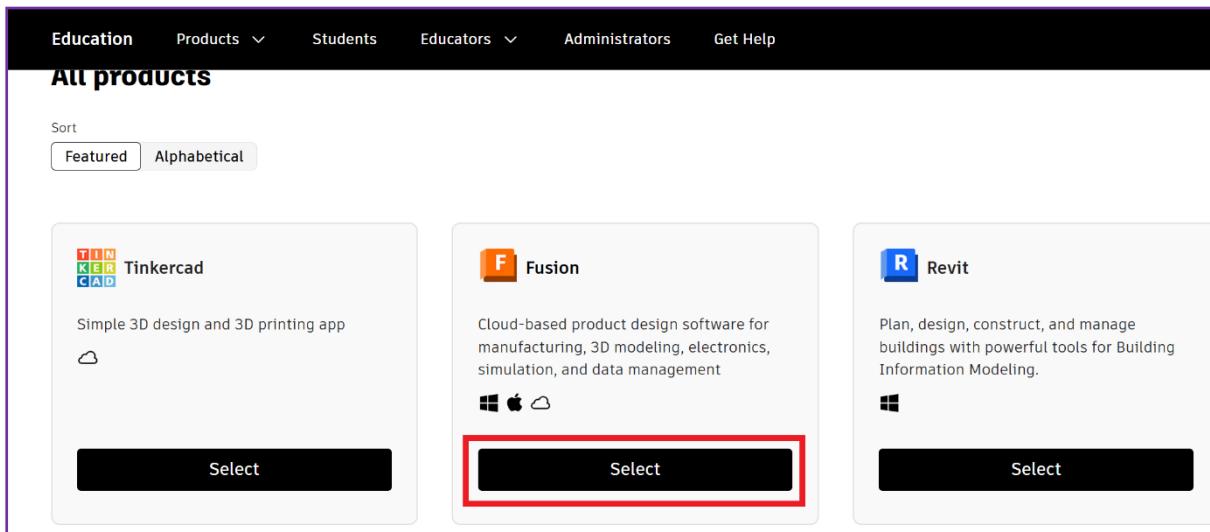


7. Alternatively, we can choose “**Sketch creation**” instead of Generic image to create **2D images**, which are better suited for creating sketches. This will provide better results compared to the first option.

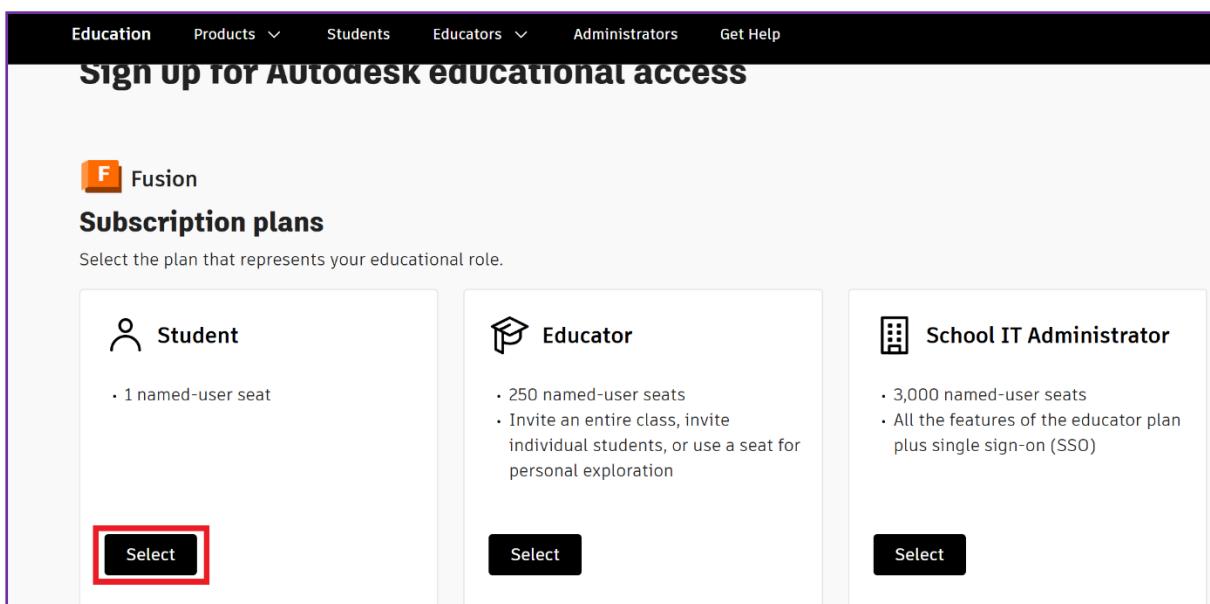


Autodesk Student account activation

Go to "<https://www.autodesk.com/education/edu-software/overview>" and select the required application. Choose the "Student" subscription plan, fill in the required details as prompted, and activate your student account.



The screenshot shows the Autodesk Education website. The navigation bar includes Education, Products, Students, Educators, Administrators, and Get Help. Below the navigation is a search bar with 'Sort' dropdowns for 'Featured' and 'Alphabetical'. The main content area is titled 'All products' and lists three items: Tinkercad, Fusion, and Revit. The 'Fusion' card is highlighted with a red box around its 'Select' button. Each card includes a small icon, a title, a brief description, and operating system compatibility icons.



The screenshot shows the 'Sign up for Autodesk educational access' page. The navigation bar is identical to the previous page. The main heading is 'Sign up for Autodesk educational access'. Below it, there's a section for 'Subscription plans' featuring 'Fusion'. Three options are listed: 'Student', 'Educator', and 'School IT Administrator'. The 'Student' card is highlighted with a red box around its 'Select' button. Each card includes an icon, a title, a list of features, and a 'Select' button.